

ABSTRACT OF THE DISCLOSURE

The present invention is directed to a major long bone ring implant for insertion into an implantation space formed across a spinal disc between two adjacent vertebral bodies of the spine. The implantation space has a wall portion, lip, or ridge with a flat portion for abutting the leading end of the bone ring implant. The bone ring implant has a leading end and a trailing end connected by opposed sides. The leading end has a straight cut portion. The opposed sides have portions that are preferably straight and at a 90° angle to the straight cut portion of the leading end to produce straight portions that are outwardly facing. The bone ring implant may be machined from a single bone or manufactured from a composite of cortical fibers, filaments, or particles. The bone ring implant may be used in combination with lockable screws, and preferably screw locks each preferably made of cortical bone or of a bioresorbable material.

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